

## TITLE OF THE INVENTION

NOVEL ISOFORMS OF CENTROMERE PROTEIN E (CENPE)

## ABSTRACT OF THE DISCLOSURE

5       The present invention features nucleic acids and polypeptides encoding three novel variant isoform of centromere protein E (CENPE). The polynucleotide sequence of *CENPEv2*, *CENPEv3*, and *CENPEv4* are provided by SEQ ID NO 6, SEQ ID NO 8, and SEQ ID NO 10, respectively. The amino acid sequences for *CENPEv2*, *CENPEv3*, and *CENPEv4* are provided by SEQ ID NO 7, SEQ ID NO 9, and SEQ ID NO 11, respectively. The present invention also  
10      provides methods for using *CENPEv2*, *CENPEv3*, and *CENPEv4* polynucleotides and proteins to screen for compounds that bind to *CENPEv2*, *CENPEv3*, and *CENPEv4*, respectively. The present invention also provides for methods to detect the presence of cancer and for inhibiting abnormal cell proliferation.

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